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09/802,606	9(Davis et al	
ŧ	Hits	EAST SEARCH Hits Search String	5/28/04 Databases
2	27436	(particle or sphere) near10 (pack\$5 or plac\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB
L 2	18501	(particle or sphere) near5 (pack\$5 or plac\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
ខា	22123	((particle or sphere) and (pack\$5 or plac\$7)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
4	3831	2 and ((particle or sphere) and (pack\$5 or plac\$7)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	1384	(particle adj pack\$5) or (sphere adj pack\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
9	237	((particle adj pack\$5) or (sphere adj pack\$5)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	τ-	5426501.PN.	USPAT
F8	52	5 and 7??/ \$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

Results of search set L6:

166/295	424/45	429/127	203/6		166/281	338/20	264/39		426/631	117/109	257/788	206/315.9		523/210		428/36.4	501/88		106/162.51	501/95.2	428/34.5	426/594
20040304	20040226	20030626	20030522		20040316	f 20021022	20020924		20020521	20020108	20010703	20010313		20001128		20000229	19990803		19990209	19990105	19980825	19980721
METHODS AND COMPOSITONS FOR FORMING SUBTERRANEAN US 20040040713 A1 FRACTURES CONTAINING RESILIENT PROPPANT PACKS	Respiratory delivery for gene therapy and lentiviral delivery particle	Galvanic element having a thin, flat, and flexible metal housing	US 20030097244 A1 Method and apparatus for creating a simulated particle pack	Metriods and compositions for forming subtentanean fractures containing resilient	proppant packs	Non-linear resistance with varistor behavior and method for the production thereof 20021022	Solid freeform fabrication using chemically reactive suspensions	Rheologically modified confectioneries produced by employing particular particle	size distributions	Method and apparatus for producing silicon carbide single crystal	Encapsulant for microelectronic devices	Reduced material box design for round objects	Granule for a thermoplastic end product comprising a mineral and/or a colorant	pigment system	Molded starch-bound containers and other articles having natural and/or synthetic	polymer coatings	Hydrofluoric acid resistant ceramic mortar	Inorganically filled, starch-based compositions for manufacturing containers and	other articles having a thermodynamically controlled cellular matrix	Damage tolerant ceramic matrix composites by a precursor infiltration	Hydraulically settable articles which include helically wound filaments	Preparation of coffee products with improved particle packing characteristics
US 20040040713 A1	US 20040037780 A1	US 20030118894 A1	US 20030097244 A1		US 6705400 B1	US 6469611 B1	US 6454972 B1		US 6391373 B1	US 6336971 B1	US 6255738 B1	US 6199692 B1		US 6153670 A		US 6030673 A	US 5932505 A		US 5868824 A	US 5856252 A	US 5798151'A	US 5783246 A

	Method for manufacturing articles having inorganically filled, starch-bound cellular		
US 5783126 A	matrix	19980721	264/102
US 5753742 A	High-solids, aqueous, polymeric dispersions	19980519	524/501
US 5731994 A	Method of packing particles into vessels and apparatus therefor	19980324	702/128
	Inorganically filled, starch-bound compositions for manufacturing containers and		
US 5660900 A	other articles having a thermodynamically controlled cellular matrix	19970826	428/35.6
US 5658624 A	Articles formed by extruding hydraulically settable compositions	19970819	428/34.7
4 0000000000000000000000000000000000000	Methods and apparatus to duplicate intrages on various image carrying media		
US 5652080 A	using liquid carrier based developer	19970729	430/119
	Methods for the extrusion of novel, highly plastic and moldable hydraulically		
US 5549859 A	settable compositions	19960827	264/102
	Methods for continuously placing filaments within hydraulically settable		
US 5545297 A	compositions being extruded into articles of manufacture	19960813	264/102
US 5527747 A	Rapid process for the preparation of diamond articles	19960618	501/90
	Chemically bound fullerenes to resin and silica supports and their use as		
US 5308481 A	stationary phases for chromatography	19940503	210/198.2
US 5124558 A	Imaging system for mamography employing electron trapping materials	19920623	250/484.4
US 5014967 A	Spring element	19910514	267/153
	Low thermal conductivity, high strength refractory castable composition with high		
US 4992397 A	abrasion resistance	19910212	501/124
US 4873504 A	Bonded high energy rare earth permanent magnets	19891010	335/303
US 4598107 A	Stepwise/ultimate density milling	19860701	523/351
US 4576736 A	Method of predicting and controlling the viscosity of conductive pastes	19860318	252/512
US 4525410 A	Particle-packed fiber article having antibacterial property	19850625	428/198
US 4476026 A	Apparatus useful in identifying a solute	19841009	210/656
	Method and apparatus for indicating an operating characteristic of an internal		
US 4456883 A	combustion engine	19840626	324/464
US 4451495 A	Increasing magnetic particle concentration in magnetic coatings	19840529	427/472
US 4361233 A	Anti-theft packaging device	19821130	206/387.11
	Process for producing a particle pack composition comprising alumina and the		
US 4105587 A	resulting attrition resistant composition	19780808	502/219
US 4043831 A	Densification of coal fly ash	19770823	75/750
US 4008763 A	Well treatment method	19770222	166/253.1
US 3836354 A	PRODUCTION OF PELLETS	19740917	75/766
JP 2003304948 A	FILLER FOR CUSHION MATERIAL AND CUSHION MATERIAL	20031028	
JP 2003156483 A	QUANTITATIVE DETERMINATION METHOD OF CATIONIC SURFACTANT	20030530	
	FACILITIES FOR WASTE GASIFICATION AND METHOD FOR OPERATION		
JP 2003064382 A	THEREFOR	20030305	
	UPWARD WATER STREAM ADMITTING PACKED TOWER TYPE WATER		
JP 2003062581 A	TREATMENT EQUIPMENT	20030304	
	PARTICLE-PACKED TYPE NET LAYING MEMBER FOR HORTICULTURAL		
JP 2003061477 A	POT OR PLANTER	20030304	
	DEVICE FOR MEMBRANE SEPARATION AND ACTIVATED SLUDGE		
JP 2003053368 A	PROCESS	20030225	

JP 2002267123 A JP 2002263415 A JP 2002210478 A JP 2001129338 A	WASTE TREATING APPARATUS FILTER MEDIUM FOR AIR FILTER UNIT METHOD FOR CLEANING WATER TREATING APPARATUS DUST COLLECTOR OF EXHAUST GAS	20020918 20020917 20020730 20010515
JP 2000264776 A	MANITEACTIBE OF MAI DING EDAM DO WATER FOR MEDICE FOR SINGLE	20000926
JP 411333472 A	WATER TREATMENT APPARATUS	19991207
	DEPHOSPHORIZATION DEVICE	19990119
	DEPHOSPHORIZATION DEVICE	19990119
	INORGANIC SINTERED PORCOS BODY AND FILTER PARTICLE PACKING STRUCTURE SIMIL ATION SYSTEM	19970517
	MEMBRANE SEPARATION DEVICE	19950711
	MANUFACTURE OF CARBON ELECTRODE	19931227
	PRODUCTION OF SILICON FOR SOLAR BATTERY MAGNETIC HEAD	19931019
	MANUFACTURE OF GRANULAR PARTICLE PACKED PIPE	19930406
	MOLDING METHOD	19930319
	METHOD AND DEVICE FOR TREATING EXHAUST GAS	19921022
	ANALYSIS ON OLIGO SACCHARIDE	19921021
A SANTOCANON DI	REACTOR WITH LOWER WALL AND/OR UPPER WALL HAVING LAYER OF	40000044
	CERAMICS POROUS BODY	19920618
JP 04160762 A	SEALED TYPE LEAD STORAGE BATTERY	19920604
JP 04029757 A	METHOD FOR FRICTIONAL GRINDING OF RAW MATERIAL	19920131
JP 03297387 A	SEPARATION OF DNA	19911227
	SEPARATION OF DNA	19911227
JP 403217213 A	HOLLOW FIBER ELEMENT AND ITS PRODUCTION	19910925
	MOLECULAR WEIGHT DISTRIBUTION ANALYSIS FOR POLYIMIDE	19910628
	DIELECTRIC PARTICLE PACKING LAYER FILTER DEVICE PRODUCTION	19900727
JP 02107646 A	OF FOAM MOLDED ARTICLE USING THE SAME	19900419
	PRODUCTION OF PRELIMINARY FOAMED PARTICLE OF COLORED POLYOLEFIN BASED RESIN AND PRODUCTION OF FOAMED MOLDED	
	ARTICLE	19900316
	CERAMIC GRANULE FOR PRESS MOLDING	19900129
	PRODUCTION OF ALUMINUM/MAGNESIUM ALLOY CONTAINING	
	REFRACTORY MATERIAL PARTICLE DUIST COLLECTOR WITH ELECTRICALLY CHARRED BARTICLE BACKING	19890919
	LAYER	19890628
	DUST COLLECTOR FOR BED PACKED WITH ELECTROSTATIC MIGRATING	200001
JP 63275694 A	PARTICLE FOR COAL GASIFICATION GAS	19881114
JP 62071513 A	METHOD OF FIXING END PART OF GAS SEPARATION MODULE	19870402
JP 60143432 A	MAGNETIC RECORDING MEDIUM	19850729

JP 60014918 A	FILTRATION FILTER FOR SEPARATING SOLID FROM LIQUID METHOD AND ADDADATIS FOR TREATING WASTE WATER WITH APPORT	19850125
JP 58153590 A JP 58000760 A	MICROORGANISMS SEPARATION OF CATABOLIC HEMOGLOBIN	19830912 19830105
JP 57167223 A	FILLING METHOD FOR RAW MATERIAL PARTICLE IN EXPANSION MOLDING 19821015 METHOD AND DEVICE FOR OFFICE MEASUREMENT OF AMOUNT OF	19821015
JP 56141558 A	ORGANIC MATTER IN WATER	19811105
JP 55062107 A JP 55027024 A WO 134217 A2	DRY PROCESS DUST COLLECTING METHOD FOR BLAST FURNACE GAS MOLDED TABLETED CATALYSTS SHOWING HIGH SELECTIVITY BONE CEMENT	19800510 19800226 20010517
DE 19919652 A1	Nonlinear resistor, e.g. a field control element for cables or an overvoltage protection element, contains spherical varistor particles partially covered by conductive particles and-or comprising densely packed coarse and fine particles	20001102
EP 1026290 A1		20000809
DF 19912652 A1	Acid resistant mortar or concrete, especially for internal lining of cooling towers, is produced using a highly densifiable binder mixture of cement, fly ash and microsilica	20000420
WO 9945789 A1	RHEOLOGICALLY MODIFIED CONFECTIONERIES PRODUCED BY EMPLOYING PARTICULAR PARTICLE SIZE DISTRIBUTIONS	19990916
WO 9934973 A1	A GRANULE FOR A THERMOPLASTIC END PRODUCT COMPRISING A MINFRAI AND/OR A COI ORANT PIGMENT SYSTEM	19990715
WO 9721482 A1	PROCESS FOR REDUCING NOX FROM EXHAUST FUMES	19970619
EP 727250 A2	Method of packing particles into vessels and apparatus therefor Grey water nurtication and recycling plant which may be installed in bahitable	19960821
DE 4435304 C1	buildings PI ACING FII AMENTS WITHIN EXTRIDED HYDRALII ICALLY SETTABLE	19960515
WO 9610477 A1	COMPOSITIONS	19960411
WO 9605254 A1	STARCH-BOUND CELLULAR MATRIX METHODS FOR EXTRUDING NOVEL HYDRAULICALLY SETTABLE	19960222
WO 9533606 A1	COMPOSITIONS	19951214
EP 676771 A1 WO 9511509 A1	NUCLEAR FUEL CYCLE. NIICI FAR FUEL CYCLE	19951011
7 7 7 00 00 00 00 00 00 00 00 00 00 00 0	PREPARATION OF COFFEE PRODUCTS WITH IMPROVED PARTICLE	
WO 9502334 AT DE 4319895 A1	PACKING CHARACTERISTICS Process for purifying solvent-containing exhaust air by adsorber resins	19950126 19941222
	Reaction bonded silicon infiltrated silicon carbide ceramic body - has continuous	
DE 4243864 A1	silicon carbide particle size distribution allowing high packing density IMAGING SYSTEM FOR MAMMOGRAPHY EMPLOYING ELECTRON	19930701
WO 9301693 A1	TRAPPING MATERIALS	19930121

DE 3743479 C1 EP 320380 A1 EP 287414 A2	Device for removing oxygen Machine for stapling with an oscillating stapler head. Particle detector.	19890622 19890614 19881019
DE 3708766 A1 EP 166400 A2	Container for receiving spherical objects Method for forming a ceramic slurry.	19880929 19860102
FR 2553962 A1	Magnetic grouping device	19850426
EP 107000 AZ GB 2027751 A	Method of preparing a slurry of a ceramic oxide and a liquid premix. Chromium Diffusion Coating of Steel	19840502 19800227
	Modified polymer particle useful as packing material for chromatography comprises treating ester bond with acid or alkali hydrous solution to hydrolyze ester bond and isolate carboxyl group and capping free carboxyl group through	
WO 2004024784 A	amidation I in the hardonable roots commonsting for connecting an analysis in	20040325
	subterranean fractures comprises hardenable resin, hardening agent for	
EP 1394355 A	hardening resin, rubber latex, and rubber latex stabilizing surfactant Antistatic polyester type resin expanded particle used as buffer packing material,	20040303
JP 2003231770 A	contains resin comprising preset amount of mixture of specific alconol and nitrogen compound and/or ester of glycerol and alkyl fatty acid	20030819
JP 2003266313 A	Projection material for blasting product made from polyurethane, contains preset amount of metal type particle packed using thermoplastic resin as binder	20030924
	Microbe eliminating system of waste water, has piezoelectric-ceramics particle packed in container of microbe eliminating apparatus, so that hydrogen peroxide	
JP 2003340461 A	is produced from dissolved oxygen in pressurized waste water Scale prevention method for heat exchanger, involves circulating cool water, to	20031202
JP 2003320392 A	make contact with chelate resin and calcium carbonate particle and/or silica gel particle, in order to remove heavy metal from water	20031111
	Analyzing genomic DNA clones, useful in functional genomics, particularly to the expression and screening of genomic DNA sequences encoding uncharacterized	
WO 2003083075 A	genes and proteins, comprises retrovirus-based genomic screening Electrophoretic display device has pair of substrates each having composite resin	20040101
JP 2003202603 A KR 2003049569 A	and inorganic thin film of specific water vapor permeability Method for preventing soft error	20030718 20030625
US 20030102854 A	Impedance sensor, used to determine characteristic of packet, comprises first and second driver electrodes coupled to sensor electrode, and driven in counter phase to produce specific net output signal at sensor electrode	20030617
	Simulated particle creation method, involves selecting particle and placing in N concentric subspace such that selected particle is in non-overlapping relation with	
US 20030097244 A	respect to catch net and water level Denitrification method of waste gas ejected from gas engine, involves supplying	20030522
JP 2003144852 A	waste gas from gas engine to reactor with denitrification catalyst, after passing it through alumina particle packed layer	20030520

	Shock absorbing material for packaging, has specific volume multiplying factor, and is formed by foaming amorphous ground particles impregnated with foaming	
JP 2003137353 A	agent	20030514
	Oxide-superconductor wire heat processing method involves raising temperature of wire above melting point of bismuth particle, and suddenly cooling it below	
JP 2003100162 A	freezing point for crystallization of bismuth particle	20030404
	Cushion sheet for mattress, comprises thermoplastic synthetic resin hollow rod shaped component as word component and elastic yam as warn component and	
JP 2003093199 A	warp and weft are intersected	20030402
	High-heat insulating coil for rotary electric machine has high-heat insulating layer	
000000040	having mica layer consisting of particle packing resin with heat conductivity of 0.6	00000
JF 2003003445 A	w per rin. Polyester group resin foam particle used as shock absorbing material has co-	20030110
	polyester resin having preset melting point and containing terephthalic acid, and	
JP 2003003001 A	adipic acid and/or succinic acid unit components	20030108
	Semiconductor substrate material for integrated circuits, comprises composite of	
	refractory metal particles having preset particle diameter, and high thermal	
JP 2002356731 A	conductivity metal particle When treating unit for performing dentities of unitarity and the production of	20021213
	Water treating unit for performing definitions to water such as underground water has anothe and cathode which contains electroconductive particle which	
JP 2002346566 A	supported microprograms	20021203
KR 2002087240 A	Jade fine particle pack and preparation method thereof	20021200
	Fine particle packing method for shaping die involves forming of centrifugal force	
JP 2002283317 A	by rotation of die when packing fine particle	20021003
	Non-sintering type nickel electrode for alkali secondary battery, comprises	
	electroconductive non-sintering base material packed with electrode-active	
JP 2002279981 A	particles comprising nickel oxy-hydroxide	20020927
	Freeform fabrication of components such as ceramic components, involves	
	deposition of bead of fluid from mixing chamber on to platform and gelling of fluid	
US 6454972 B	shortly after deposition	20020924
	High yield stress magnetorheological material for space craft applications is	
US 20020110704 A	subjected to magnetic field that aligns and increases interactive force between particles of material	20030828
	Fine particle packing apparatus for copier, removes air from fine particles by	700007
JP 2002193202 A	inserting deaeration nozzle into container so as to increase powder density and filling factor	20020710
US 20020127722 A	Magneto-mechanical device is useful for delivering substances into target material 20030909	1 20030909
	Particle packed tube manufacture involves inserting case with magnetic	
JP 2002113593 A	absorb magnetic lines of forces	20020416
	Fine particle supply apparatus has vibration transmittance member in which one end is installed in inner periphery of hopper containing fine particle while other end	-
JP 2002080001 A	is extended inside hopper	20020319

	New recombinant polynucleotides encoding positive-strand RNA virus structural proteins useful for creating virus-based (e.g. poxyirus) replicon particle packaging	
WO 200218585 A	systems for use in recombinant protein synthesis or gene therapy Particle packing apparatus has controller to regulate auger rotation, such that	20040128
JP 2002059901 A	acceleration mode is gentler than deceleration mode and acceleration is successively decreased towards constant speed mode	20020226
	Subterranean heat exchanging system for air conditioner, has heat transfer filler with fine or granular hardenable particle in fluid state, packed around heat carrier	
JP 2002054850 A	circulating pipe inserted into subterranean bore	20020220
	Fine particle storage container e.g. toner bottle for image forming device, has double bag structure with inner deformable bag and air resistant outer bag with	
JP 2002002832 A	independent discharge openings	20020109
	Porous polymer particle for anion analysis liquid chromatography, comprises	
	polymer substrate with ester bonds connected to group having quaternary	
EP TIBUZBU A	ammonium structure by spacer molecule Particle packing apparatus e.g. for wheat flour, cement, has screw feeder driving	20030410
	motors whose rotational speed is determined by extruding particles using screw	
JP 2001322601 A	feeders based on load of each motor	20011120
	Tamping device for particle packing bag, has decompression chamber that	
	decompresses several particle packing bags through predetermined pressure	
JP 2001270503 A	reduction condition	20011002
	Transportation package for high purity sputtering target used for display device	
	production, contains particle of specific diameter having detachment property to	
JP 2001240959 A	the target packing surface of film	20030811
	Spherical carbon microparticle for use as electroconductive filler for resin and	
	rubber, has preset average particle diameter, Kr adsorption BET specific surface	
JP 2001220114 A	area, crystallinity and spacing of lattice plane	20010814
	Packing equipment for packaging of fine particles, has drive mechanism to make	
	air siphon move vertically along interior of container to suck air in particles being	
JP 2001199401 A	filled into container from hopper	20010724
	Filled, curable siloxane encapsulant composition for semiconductor chip	
	packages, comprises filler particles having at least bi-modal particle packing	
US 6255738 B	distribution	20010703
	Production of polymer-particle composite for forming display material, e.g. light diffusion plate involves bringing particle suspension containing particle dispensed	
EP 1097752 A	in solvent capable of swelling the polymeric material	20010509
US 6199692 B	Reduced material box design for round objects	20010313
	1,3-propanediol monomer useful as feed stock for polymers e.g. polypropylene	
	terephthalate, produced by bioconversion of carbon source other than glycerol by	
US 6428767 B RU 2160420 C	single microorganism harboring dehydratase enzyme Fluidized bed furnace for reducing metal oxides	20030501 20001210

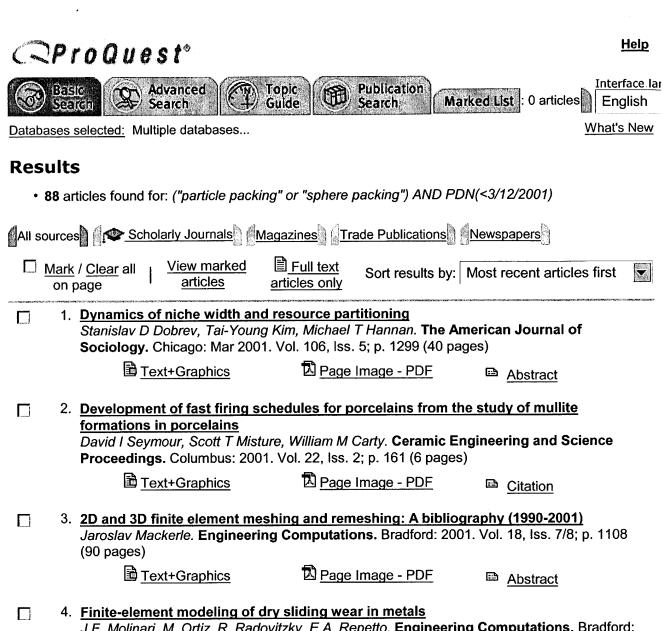
	Fine particle packing device for use in printer, copier, has vibration generator installed at peripheral end of each oscillating transmittance rings which are	
JP 2000326901 A	attached along outer circumferential surface of hopper Fine particle packing apparatus has chain block that is used in lifting flexible bad	20001128
JP 2000318702 A	when filling bag with predetermined amount of fine particles	20001121
	Nonlinear resistor, e.g. a field control element for cables or an overvoltage protection element, contains spherical varistor particles partially covered by	
DE 19919652 A	conductive particles and-or comprising densely packed coarse and fine particles. Packing exetem for filling flexible had with fine particle and aluminum bydroxide.	20001102
	aluminum oxide, has bag sending-out unit which takes out bag for particle from	
JP 2000238702 A	fine particle packing unit	20000002
	Particle packing method of food powder, chemical/mechanical agent, involves introducing as into honner to enhance liquidity of particles and thereafter opening	
JP 2000172342 A	rotatable shutter, to output particles from hopper	20000623
	Hydraulically reactive particles for use as binding agents in mortar concretes and	
M/O 200024688 A	certifications fillatures flave a hydraumoning reactive outer portuoi formed over a	20000504
V 0 200024000 V A	Acid resistant mortar or concrete, especially for internal lining of cooling towers, is	1000007
	produced using a highly densifiable binder mixture of cement, fly ash and micro-	
DE 19912652 A	silica	20000420
	Packing method of particles such as wheat flour, sesame seed - involves	
	conveying particles at high speed during initial stage of packing and at low speed	70007
JP 11348903 A	during final stage	19991221
	Sand and soil improving plant for manutacturing bentonite mixed soiled-sand for	
	CONSTRUCTION - Has controller which controls operation of the particle material	00770007
JP 11301/83 A	repientsning apparatus depending on load loss of load cell. Onen tithe used for manufacturing particle packet tithe - has onen tithe containing	19991102
JP 11197885 A	oil of specific density	19990727
	Danking apparatus for fine particle in container - includes control system which	
JP 11183241 A	gives information to fine particle supply unit and controls fine particle supply	19990709
US 5916531 A	Absorber and catalytic reactor	19990629
US 5914492 A	Application accelerator, especially free electron laser, gain monitoring system	19990622
JP 11152102 A	Fine particle packing apparatus - controls aperture width of shutter of hopper so that correct amount of fine particle is packed	19990608
	Toner container rotation direction regulation mechanism in electrophotographic	1
JP 11130020 A	copier - is provided in front of toner container and to stop container at fixed angle Plasticity control of clay paste containing alumina - involves arranging aggregated	18890518
	particles of clay paste such that predetermined clearance is maintained between	
JP 11092233 A	them and primary particle interspace in aggregated particle constitutes specific percentage	19990406

	Fine particle kneaded specimen testing structure - has support to support bottom portion of second test piece protecting tube of test piece protecting tube which is	
JP 11083708 A	packed with fine particle kneaded specimen Manufacturing method of cartridge packed column for solid phase extracts used in	19990326
JP 10300739 A	analysis - involves applying pressure by ultrasonic welder and giving vibration for joining column contains cap and column container	19981113
	New retroviral packaging cells - containing Mus dunni endogenous virus sequences to target cells, retrovirus gag and pol genes and a heterologous gene	
US 6136598 A	of interest.	19981112
	Water-based acrylic composition used in sealants - contains plasticised liquid acrylic polymer, filler and a high molecular weight latex producing sealants with a	
US 5753742 A	high solids content and low organic volatile content	19980519
	Particle array apparatus with particle dispersion prevention function - has mask with particle-packing through hole whose diameter is made bigger than particle	
	diameter and which arranges poured resin particles inside perforated panel via	
JP 10051123 A	suction force from substrate	19980220
	Particle detector in material packed tube - compares instrumentation signal of detected sensing coil impedance with reference signal hased on which alarm	
JP 09239588 A		20031210
	Opaque thermal transfer paper for thermal printer - has low density base coat	
US 5677043 A	coating sandwiched between paper and top coat with pigments and binders	19970807
	Manufacture of article by powder metallurgy - using refractory die to shape the	
US 5623727 A	article with improved properties and minimal shrinkage	19970422
	Manufacturing integral three dimensional object from laminations - stacking cut	
	sheet contoured layers in desired sequence to form stack of contoured layers	
US 5779833 A	which are secured to each other to form integral three dimensional object	19970220
	Igniting waste plastic in rotary kiln - including making waste plastic particles into	
JP 08283053 A	fine package current, and blowing from upper side where fuel is blown in	19961029
JP 08283052 A	browing waste plastic in orally with a microuning making waste plastic particles into fine package current, and blowing from upper side where fuel is blown in	19961029
	Mfr of quick lime and burned dolomite in rotary - by making waste plastic particles	
JP 08283051 A	into fine package current as fuel, and blowing into kiln	19961029
	Wet-laid, porous, pleatable, solid phase extraction sheet - comprising polymeric	
WO 9629146 A	hydrocarbon binder and reactive or sorptive particles trapped in porous polymeric	40060008
C 0410300	food and beverage containers - by evapn. of	0.2600661
	water from inorganically filled mixt. comprising water, water dispersible organic	
US 5545450 A	polymer binder, inorganic aggregate and fibrous material	19960813
4 40004 400 11	of prop such as fence - has cone shaped	
JP 08144297 A	plastic material with opening in upper part	19960604

	Grey water purification and recycling plant which may be installed in habitable buildings - comprises sedimentation, bio reactor and final settlement stages with a	
DE 4435304 C		19960515
JP 08027700 A	coated with surface protective layer to prevent fragmentation New functionalised macroporous polystyrene divinyl-benzene particles - useful in	19960130
EP 758261 B	solid phase extraction applications Owling purder first for a fact breader reactor, using Heaping Distraing	19951116
EP 676771 B	of child induced race for e.g. task broader races. I don't go can are races in the control of th	19950427
	Optimising compsn. and cost of cementitious mixts comprises using mathematical model to maximise component packing density and adjusting fine-to-	
US 5527387 A	coarse aggregate ratio to minimise cost Grain (com) particle-packed food prepn by housing with emulsion in a sealed	19950223
JP 06113765 A	container and sterilising Wood wool building board - is infiltrated with a foam bonding agent as the material	19940426
EP 655991 B	is compressed to give increased pore structure with lower bonding agent consumption	19940303
	Polymeric composite of distortion temp strength, stiffness and impact resistance -	
US 5225489 A	contg short fibres of anisotropic polymer of varying length, dia and aspect ratio uniformly homogeneously distributed in thermoplastic and thermoset polyester	19930706
	Reaction bonded silicon infiltrated silicon carbide ceramic body - has continuous	70000
DE 4243864 A	silicon carbide particle size distribution allowing nign packing density Thickener for suspensions, not generating vortex flow - has cylindro-conical	19930701
SU 1766451 A	processor with controlled output increasing efficiency by factor of 1.8 to 2 Efficient sepn. of DNA samples of different mol.wt comprising sepg. sample into	19921007
JP 03297386 A	portions for gel chromatography and other chromatography prior to passage through spherical particle packing	19911227
	Sonar transmitter-receiver for ship ice-breaker - has transducers which convert energy to sound waves and returned wave contains doppler reflection for speed	
FR 2662565 A	determination Gweum and mitvarieed fly ach which are hyenmotinte of nower stations, are	19911129
GB 2234237 A	Sypson and purvensed by as it which are by-produces or power stations fare stored as mix in form of blend of powders or as granules prior to use in making cement	19910130
EP 407104 A	Heating wire with inorganic insulation esp. for cathode ray tube - includes first and second insulating layers of inorganic particles deposited to specific packing rates	19910109
DE 3902032 A	forming closely packed opportunities avities Control closely packed control cavities	19900726
SU 1579535 A	Centingal separator tot septi. Or soot nort soot-gas siteam - has septi. element made as hollow truncated cone	19900723

DE 3837412 A	Separator preventing particles from exting chamber - having drum, casing section, conical member, inlet and outlet, gap and spherical rolling particles	19900510
SU 1525681 A	COD packets control device - has divider, three switches and intermediate chargers	19891130
JP 01256328 A	Water culture medium effectively supplying plant nutrient - comprising carbonated particle carrier and nutrient fertiliser soln.	19891012
DE 3743479 C	Oxygen extractor for domestic heating circuit - has metal particle pack and sludge collecting chamber in container	19890622
EP 317732 A	Spring element comprising elastomer block - has hollow channels passing through hollow snaces producing effective silent damping.	10800531
	Compacting powder materials e.g. metal powders - by fluidising the materials, adding resin powder and mixing obtd. resin coafed powder material with water	2000
JP 63072802 A	etc.	19880402
JP 62204806 A	Collecting valuable components from soln by passing through adsorbent layer of solid packed in vessel	19870909
	Composite laminated friction or bearing material - comprises steel coated with two	
DE 3601438 C	layers comes. Copper and on which are sepa, by unlosted infilluting layer of e.g. titanium	19870409
	Composite propellant grain contg. thermoplastic elastomer binder - mfd. using tetra:alkyl titanate bonding agent additive to improve processability and	
US 4597924 A	mechanical properties	19860701
	Foil bag stack thrusting mechanism off pallet - has slide carriage with two rows of	
DE 3414996 C	fingers, one holding lower layer of bags in position, on thrust drive actuation	19851114
DE 3401115 A	Prepn. of ester of glyoxylic acid - by oxy-dehydrogenation of glycolic acid ester on catalyst with channelled monolith carrier	19850718
	Aluminium reduction cell - having loose refractory hard metal shaped forming the	
US 4498966 A	cathode surface	19850212
	Operating characteristic indication method for IC engine - sensing presence of charged particles in exhaust gas stream and is esp. useful for monitoring	
AU 8319853 A	emissions from diesel engine	19840412
EP 103214 A	Welded fibre article packed with zeolite particles - ion exchanged with bactericidal metal	19840321
	Stack gas desulphurisation process aq. waste purificn - involves electrolysis of liq.	
JP 59042085 A	resulting from sepn. of waste treated with calcium hydroxide or carbonate Packed column thermal reactor for analytical instrument - has good process	19840308
WO 8302008 A	stream resolution and long transport delay time	19830609
BE 895764 A	Quenching appris, for thermal toughening of glass - lowers not glass pane into airfluidised particle zone	19830516
JP 58057462 A	Hollow sphere-packed silicone rubber prepn by packing hollow filler, e.g. glass, carbon etc., of particle size less than 60 microns, in silicone rubber	19830405
	Fluidised bed reactor for drying, etc has twin parallel casings with catalyst	
SU 1000098 A	packed gas lines, and electric heaters to stabilise operation	19830228

19821210	19810320	19800723 19771224 19771003	19770127	19740917
Purifying waste water contg. suspended solids - by feeding into solid particle packed bed to lower BOD and COD and remove some solids, and then to fluidised active carbon or zeolite bed Gas-tight seal compsn. for fuel cell plates - comprises an inert powder of variable particle size in a PTFE binder	Active charcoal prepn. from mixt. of (non)carbonaceous particles - by suspension in slurry with lyophobic liquid additive, sepn., drying and heat treatment Corrosion resistant coating on metal - by physical vapour deposition followed by diffusion coating	Curacie result to an indicated and applys. Including result and reduce and an outsty having simultaneously operated valves Graphitising long carbon material - such as burned electrodes and pipes Removing oxygen from krypton or xenon before liquefaction - by contact with carbon granules, paraffin or sulphur	Alkyl phthalimide prepn. from liquid phthalic anhydride - by reaction with gaseous alkylamine in hot tube reactor Continuous flow electrical water heater - has conducting plastic heating element which exhibits sudden change in resistance at specified town.	which exhibits studied to an ignificant and an appearance and density formed by tumbling cubes of consolidated wet pellet material
JP 57201591 A US 4259389 A	FR 2462388 A EP 24802 A	GB 1572002 A JP 52155610 A JP 52117867 A	DE 2628783 A	US 3836354 A



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Full text

Abstract

5. Centrifugal casting of large alumina tubes

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1 Algorithms for congruent sphere packing and applications
Danny Z. Chen, Xiaobo Hu, Yingping Huang, Yifan Li, Jinhui Xu

June 2001 Proceedings of the seventeenth annual symposium on Computational geometry

Full text available: pdf(290.09 Additional Information: full citation, abstract, references, index terms

The problem of packing congruent spheres (i.e., copies of the same sph ere) in a bounded domain arises in many applications. In this paper, we present a new pack-and-shake scheme for packing congruent spheres in various bounded 2-D domains. Our packing scheme is based on a number of interesting ideas, such as a trimming and packing approach, optimal lattice packing under translation and/or rotation, shaking procedures, etc. Our packing algorithms have fairly low time complexities. In cert ...

2 Efficient adaptive meshing of parametric models

Alla Sheffer, Alper Üngör

May 2001 Proceedings of the sixth ACM symposium on Solid modeling and applications

Full text available: pdf(1.45 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index</u> terms

Parametric modeling is becoming the representation of choice for most modern solid modelers. However, when generating the finite-element mesh of the model for simulation and analysis, most meshing tools ignore the parametric information and use only the boundary representation of the model for meshing. This results in re-meshing the model basically from scratch each time a parametric change is instantiated, which happens numerous times throughout the design process.

In this paper we I ...

Keywords: adaptivity, mesh generation, parametric models

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4	Bubble mesh: automated triangular meshing of non-manifold geometry by	
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5	Applications: Computer assisted sphere packing in higher dimensions Nelson Max	
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	Full text available: pdf(577.01 KB) Additional Information: full citation, abstract, references	
	A computer was used to help study the packing of equal spheres in dimension four	
	and higher. A candidate for the densest packing in 4-space is described. The configuration of 24 spheres touching a central sphere in this packing is shown to be	
	rigid, unlike the analogue in 3-space, in which the spheres can slide past each other. A system for interactively manipulating and visualizing such configurations is	
	described. The Voronoi cell for a sphere is the set of points closer to its center than	
	to a	
6	Generating well-shaped Delaunay meshed in 3D	
	Xiang-Yang Li, Shang-Hua Teng January 2001 Proceedings of the twelfth annual ACM-SIAM symposium on	
	Discrete algorithms	
	Full text available: pdf(827.07 Additional Information: full citation, abstract, references, citings, index terms	

A triangular mesh in 3D is a decomposition of a given geometric domain into tetrahedra. The mesh is well-shaped if the aspect ratio of every of its tetrahedra is bounded from above by a constant. It is Delaunay if the interior of the circum-sphere of each of its tetrahedra does not contain any other mesh vertices. Generating a well-shaped Delaunay mesh for any 3D domain has been a long term outstanding problem. In this paper, we present an efficient 3D Delaunay meshing algorithm that mathemat ...

Keywords: Delaunay triangulations, algorithms, computational geometry, mesh generation, slivers

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	The classification of volumetric data sets as well as their rendering algorithms are typically based on the representation of the underlying grid. Grid structures based on a Cartesian lattice are the de-facto standard for regular representations of volumetric data. In this paper we introduce a more general concept of regular grids for the representation of volumetric data. We demonstrate that a specific type of regular lattice the so-called body-centered cubic is able to represent						
	Keywords : Cartesian grid, body centered cubic, close packing, hexagonal sampling, volume data						
8	Separators for sphere-packings and nearest neighbor graphs						
Gary L. Miller, Shang-Hua Teng, William Thurston, Stephen A. Vavasis							
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	January 1997 Journal of the ACM (JACM) , Volume 44 Issue 1 Full text available: pdf(651.91 Additional Information: full citation, abstract, references, citings, index terms A collection of n balls in d dimensions forms a k-ply system if no point in the space is covered by more than k balls. We show that for every k-ply system &Ggr, there is a sphere S that intersects at most O(k1/dn1-1/d) balls of &Ggr and divides the						

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January 2001 Journal of the ACM (JACM), Volume 48 Issue 1

John Case, Dayanand S. Rajan, Anil M. Shende

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continuous space and (ii) a continuous space, the pres interconnection of process Processor interconnection	e, parallel processing computers for (i) approximating analog simulation of the motion of objects and waves in sent paper is concerned with which mesh-like ors might be particularly suitable for the task and why. schemes based on nearest neighbor connections in sented along with motivation. Th	
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December 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 4

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